

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

```
SQL> DECLARE
  2 BEGIN
  3 NULL;
  4 EXCEPTION
  5 WHEN OTHERS THEN
  6 NULL;
  7 END;
  8 /
```

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
  1 DECLARE
  2 BEGIN
  3 NULL;
  4 DECLARE
  5 BEGIN
  6 NULL;
  7 EXCEPTION
  8 WHEN OTHERS THEN
  9 NULL;
 10 END;
 11 EXCEPTION
 12 WHEN OTHERS THEN
 13 NULL;
 14* END;
SQL> /
```

PL/SQL procedure successfully completed.

```
SQL> DECLARE
  2 BEGIN
  3 NULL;
  4 DECLARE
  5 BEGIN
  6 NULL;
  7 DECLARE
  8 BEGIN
  9 NULL;
 10 EXCEPTION
 11 WHEN OTHERS THEN
 12 NULL;
 13 END;
 14 EXCEPTION
```

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```
15  WHEN OTHERS THEN
16  NULL;
17  END;
18  EXCEPTION
19  WHEN OTHERS THEN
20  NULL;
21  END;
22  /
```

PL/SQL procedure successfully completed.

```
SQL> DECLARE
  2  BEGIN
  3  NULL;
  4  DECLARE
  5  BEGIN
  6  NULL;
  7      DECLARE
  8      BEGIN
  9      NULL;
 10      EXCEPTION
 11      WHEN OTHERS THEN
 12      NULL;
 13      END;
 14      DECLARE
 15      BEGIN
 16      NULL;
 17      EXCEPTION
 18      WHEN OTHERS THEN
 19      NULL;
 20          DECLARE
 21          BEGIN
 22          NULL;
 23          EXCEPTION
 24          WHEN OTHERS THEN
 25          NULL;
 26          END;
 27      END;
 28      EXCEPTION
 29      WHEN OTHERS THEN
 30      NULL;
 31      END;
 32      EXCEPTION
 33      WHEN OTHERS THEN
 34      NULL;
 35      DECLARE
 36      BEGIN
 37      NULL;
```

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```
38 EXCEPTION
39 WHEN OTHERS THEN
40 NULL;
41 END;
42 END;
43 /
```

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE
2 V_Num1 NUMBER(2) := 10; --SCOPE of V_Num1 Begins Here
3 BEGIN
4 --SCOPE of V_Num1 Continues Here
5 DBMS_OUTPUT.PUT_LINE('The V_Num1 is : '||V_Num1); --Prints 10, Due
To Local SCOPE of its Block
6* END; --SCOPE of V_Num1 Ends Here, Hence The V_Num1 is No More in The
Memory
SQL> /
The V_Num1 is : 10
```

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE
2 V_Num1 NUMBER(2) := 10; --SCOPE of V_Num1 Begins Here
3 BEGIN
4 --SCOPE of V_Num1 Continues Here
5 DBMS_OUTPUT.PUT_LINE('The V_Num1 is : '||V_Num1); --Prints 10, Due
To Local SCOPE of its Block
6 DECLARE
7 --SCOPE of V_Num1 Continues Here, As GLOBAL Scope
8 V_Num2 NUMBER(2) := 20; --SCOPE of V_Num2 Begins Here
9 BEGIN
10 --SCOPE of V_Num1 Continues Here, As GLOBAL Scope, V_Num2 Continues
Here As LOCAL Scope
11 DBMS_OUTPUT.PUT_LINE('The V_Num2 is : '||V_Num2); --Prints 20, Due
To Local SCOPE of its Block
12 DBMS_OUTPUT.PUT_LINE('The V_Num1 is : '||V_Num1); --Prints 10, Due
To GLOBAL Scope of The Outer Block To Inner Block
13 END; --SCOPE of V_Num2 Ends Here, Hence The V_Num2 is No More in
The Memory
```

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```
14* END; --SCOPE of V_Num1 Ends Here, Hence The V_Num1 is No More in The
Memory
SQL> /
The V_Num1 is : 10
The V_Num2 is : 20
The V_Num1 is : 10
```

PL/SQL procedure successfully completed.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2  V_Num1 NUMBER(2) := 10; --SCOPE of V_Num1 Begins Here
3  BEGIN
4  --SCOPE of V_Num1 Continues Here
5  DBMS_OUTPUT.PUT_LINE('The V_Num1 is : '||V_Num1); --Prints 10, Due
To Local SCOPE of its Block
6  DECLARE
7  --SCOPE of V_Num1 Continues Here, As GLOBAL Scope
8  V_Num2 NUMBER(2) := 20; --SCOPE of V_Num2 Begins Here
9  BEGIN
10 --SCOPE of V_Num1 Continues Here, As GLOBAL Scope, V_Num2 Continues
Here As LOCAL Scope
11 DBMS_OUTPUT.PUT_LINE('The V_Num2 is : '||V_Num2); --Prints 20, Due
To Local SCOPE of its Block
12 DBMS_OUTPUT.PUT_LINE('The V_Num1 is : '||V_Num1); --Prints 10, Due
To GLOBAL Scope of The Outer Block To Inner Block
13 END; --SCOPE of V_Num2 Ends Here, Hence The V_Num2 is No More in
The Memory
14 DBMS_OUTPUT.PUT_LINE('The V_Num2 is : '||V_Num2); --Fatal Error, As
V_Num2 is Out of SCOPE, As its Block is Ended
15* END; --SCOPE of V_Num1 Ends Here, Hence The V_Num1 is No More in The
Memory
SQL> /
DBMS_OUTPUT.PUT_LINE('The V_Num2 is : '||V_Num2); --Fatal Error, As
V_Num2 is Out of SCOPE, As its Block is Ended
```

*

```
ERROR at line 14:
ORA-06550: line 14, column 42:
PLS-00201: identifier 'V_NUM2' must be declared
ORA-06550: line 14, column 1:
PL/SQL: Statement ignored
```

```
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```

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```
1  DECLARE
2  V_Num1 NUMBER(2) := 10; --SCOPE of V_Num1 Begins Here
3  V_Num2 NUMBER(2);
4  BEGIN
5  --SCOPE of V_Num1 Continues Here
6  DBMS_OUTPUT.PUT_LINE('The V_Num1 is : '||V_Num1); --Prints 10, Due
To Local SCOPE of its Block
7  DECLARE
8  --SCOPE of V_Num1 Continues Here, As GLOBAL Scope
9  V_Num2 NUMBER(2) := 20; --SCOPE of V_Num2 Begins Here
10 BEGIN
11 --SCOPE of V_Num1 Continues Here, As GLOBAL Scope, V_Num2 Continues
Here As LOCAL Scope
12 DBMS_OUTPUT.PUT_LINE('The V_Num2 is : '||V_Num2); --Prints 20, Due
To Local SCOPE of its Block
13 DBMS_OUTPUT.PUT_LINE('The V_Num1 is : '||V_Num1); --Prints 10, Due
To GLOBAL Scope of The Outer Block To Inner Block
14 END; --SCOPE of V_Num2 Ends Here, Hence The V_Num2 is No More in
The Memory
15 DBMS_OUTPUT.PUT_LINE('The V_Num2 is : '||V_Num2); --Fatal Error, As
V_Num2 is Out of SCOPE, As its Block is Ended
16* END; --SCOPE of V_Num1 Ends Here, Hence The V_Num1 is No More in The
Memory
SQL>
SQL> /
The V_Num1 is : 10
The V_Num2 is : 20
The V_Num1 is : 10
The V_Num2 is :
```

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_Num1 NUMBER(2) := 10; --SCOPE of V_Num1 Begins Here
3  V_Num2 NUMBER(2) := 20;
4  BEGIN
5  --SCOPE of V_Num1 Continues Here
6  DBMS_OUTPUT.PUT_LINE('The V_Num1 is : '||V_Num1); --Prints 10, Due
To Local SCOPE of its Block
7  DECLARE
8  --SCOPE of V_Num1 Continues Here, As GLOBAL Scope
9  V_Num2 NUMBER(2) := 20; --SCOPE of V_Num2 Begins Here
10 BEGIN
11 --SCOPE of V_Num1 Continues Here, As GLOBAL Scope, V_Num2 Continues
Here As LOCAL Scope
```

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```
12  DBMS_OUTPUT.PUT_LINE('The V_Num2 is : '||V_Num2); --Prints 20, Due
To Local SCOPE of its Block
13  DBMS_OUTPUT.PUT_LINE('The V_Num1 is : '||V_Num1); --Prints 10, Due
To GLOBAL Scope of The Outer Block To Inner Block
14  END; --SCOPE of V_Num2 Ends Here, Hence The V_Num2 is No More in
The Memory
15  DBMS_OUTPUT.PUT_LINE('The V_Num2 is : '||V_Num2); --Fatal Error, As
V_Num2 is Out of SCOPE, As its Block is Ended
16* END; --SCOPE of V_Num1 Ends Here, Hence The V_Num1 is No More in The
Memory
SQL> /
The V_Num1 is : 10
The V_Num2 is : 20
The V_Num1 is : 10
The V_Num2 is : 20
```

PL/SQL procedure successfully completed.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2  V_Num1 NUMBER(2) := 10; --SCOPE of V_Num1 Begins Here
3  BEGIN
4  --SCOPE of V_Num1 Continues Here
5  DBMS_OUTPUT.PUT_LINE('The V_Num1 is : '||V_Num1); --Prints 10, Due
To Local SCOPE of its Block
6  DECLARE
7  --SCOPE of V_Num1 Continues Here, As GLOBAL Scope
8  V_Num2 NUMBER(2) := 20; --SCOPE of V_Num2 Begins Here
9  V_Num1 NUMBER(2) := 30; --SCOPE of V_Num1 of The Inner Block Begins
Here
10  BEGIN
11  --SCOPE of V_Num1 Continues Here, As GLOBAL Scope, V_Num2 And
V_Num1 Continues Here As LOCAL Scope
12  DBMS_OUTPUT.PUT_LINE('The V_Num2 is : '||V_Num2); --Prints 20, Due
To Local SCOPE of its Block
13  DBMS_OUTPUT.PUT_LINE('The V_Num1 is : '||V_Num1); --Prints 30, Due
To Local Scope of its Block
14  --V_Num1 of The Outer Block Has Lost The Visibility As Local
Variable in The Inner Block Has The Same Name
15  END; --SCOPE of V_Num2 Ends Here, Hence The V_Num2 is No More in
The Memory
16  --DBMS_OUTPUT.PUT_LINE('The V_Num2 is : '||V_Num2); --Fatal Error,
As V_Num2 is Out of SCOPE, As its Block is Ended
17* END; --SCOPE of V_Num1 Ends Here, Hence The V_Num1 is No More in The
Memory
SQL> /
```

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The V_Num1 is : 10
The V_Num2 is : 20
The V_Num1 is : 30

PL/SQL procedure successfully completed.

SQL> ED
Wrote file afiedt.buf

```
1  <<OuterBlock>> --Named PL/SQL Block
2  DECLARE
3  V_Num1 NUMBER(2) := 10; --SCOPE of V_Num1 Begins Here
4  BEGIN
5  --SCOPE of V_Num1 Continues Here
6  DBMS_OUTPUT.PUT_LINE('The V_Num1 is : '||V_Num1); --Prints 10, Due
To Local SCOPE of its Block
7  <<InnerBlock>>
8  DECLARE
9  --SCOPE of V_Num1 Continues Here, As GLOBAL Scope
10 V_Num2 NUMBER(2) := 20; --SCOPE of V_Num2 Begins Here
11 V_Num1 NUMBER(2) := 30; --SCOPE of V_Num1 of The Inner Block Begins
Here
12 BEGIN
13 --SCOPE of V_Num1 Continues Here, As GLOBAL Scope, V_Num2 And
V_Num1 Continues Here As LOCAL Scope
14 DBMS_OUTPUT.PUT_LINE('The V_Num2 is : '||V_Num2); --Prints 20, Due
To Local SCOPE of its Block
15 DBMS_OUTPUT.PUT_LINE('The V_Num1 is : '||V_Num1); --Prints 30, Due
To Local Scope of its Block
16 DBMS_OUTPUT.PUT_LINE('The Outer V_Num1 is : '||OuterBlock.V_Num1);
--Prints 10, Due To Extending of The Visibility Using The Block Lable As
Qualifier
17 --V_Num1 of The Outer Block Has Lost The Visibility As Local
Variable in The Inner Block Has The Same Name, Using Block Name We Can
Extend The Visibility
18 END InnerBlock; --SCOPE of V_Num2 Ends Here, Hence The V_Num2 is No
More in The Memory
19 --DBMS_OUTPUT.PUT_LINE('The V_Num2 is : '||V_Num2); --Fatal Error,
As V_Num2 is Out of SCOPE, As its Block is Ended
20* END OuterBlock; --SCOPE of V_Num1 Ends Here, Hence The V_Num1 is No
More in The Memory
SQL> /
The V_Num1 is : 10
The V_Num2 is : 20
The V_Num1 is : 30
The Outer V_Num1 is : 10
```

PL/SQL procedure successfully completed.

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```
SQL> ED
Wrote file afiedt.buf

 1  <<OuterBlock>> --Named PL/SQL Block
 2  DECLARE
 3  V_Num1 NUMBER(2) := 10; --SCOPE of V_Num1 Begins Here
 4  BEGIN
 5  --SCOPE of V_Num1 Continues Here
 6  DBMS_OUTPUT.PUT_LINE('The V_Num1 is : '||V_Num1); --Prints 10, Due
To Local SCOPE of its Block
 7  <<InnerBlock>>
 8  DECLARE
 9  --SCOPE of V_Num1 Continues Here, As GLOBAL Scope
10  V_Num2 NUMBER(2) := 20; --SCOPE of V_Num2 Begins Here
11  V_Num1 NUMBER(2) := 30; --SCOPE of V_Num1 of The Inner Block Begins
Here
12  BEGIN
13  --SCOPE of V_Num1 Continues Here, As GLOBAL Scope, V_Num2 And
V_Num1 Continues Here As LOCAL Scope
14  DBMS_OUTPUT.PUT_LINE('The V_Num2 is : '||V_Num2); --Prints 20, Due
To Local SCOPE of its Block
15  DBMS_OUTPUT.PUT_LINE('The V_Num1 is : '||V_Num1); --Prints 30, Due
To Local Scope of its Block
16  DBMS_OUTPUT.PUT_LINE('The Outer V_Num1 is : '||OuterBlock.V_Num1);
--Prints 10, Due To Extending of The Visibility Using The Block Label As
Qualifier
17  --V_Num1 of The Outer Block Has Lost The Visibility As Local
Variable in The Inner Block Has The Same Name, Using Block Name We Can
Extend The Visibility
18  END InnerBlock; --SCOPE of V_Num2 Ends Here, Hence The V_Num2 is No
More in The Memory
19  DBMS_OUTPUT.PUT_LINE('The V_Num2 is : '||InnerBlock.V_Num2); --Fatal
Error, As V_Num2 is Out of SCOPE, As its Block is Ended
20* END OuterBlock; --SCOPE of V_Num1 Ends Here, Hence The V_Num1 is No
More in The Memory
SQL> /
DBMS_OUTPUT.PUT_LINE('The V_Num2 is : '||InnerBlock.V_Num2); --Fatal
Error, As V_Num2 is Out of SCOPE, As its Block is Ended
*

ERROR at line 19:
ORA-06550: line 19, column 53:
PLS-00219: label 'INNERBLOCK' reference is out of scope
ORA-06550: line 19, column 1:
PL/SQL: Statement ignored
```

```
SQL> cl scr
```

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```
SQL> DECLARE
  2  V_Boolean VARCHAR2(5) := 'SAMPLE';
  3  BEGIN
  4  DBMS_OUTPUT.PUT_LINE('The Value is : '||V_Boolean);
  5  DECLARE
  6  V_Boolean BOOLEAN;
  7  BEGIN
  8  V_Boolean := FALSE;
  9  END;
 10 END;
 11 /
DECLARE
*
```

ERROR at line 1:
ORA-06502: PL/SQL: numeric or value error: character string buffer too small
ORA-06512: at line 2

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  DECLARE
  2  V_Boolean VARCHAR2(6) := 'SAMPLE';
  3  BEGIN
  4  DBMS_OUTPUT.PUT_LINE('The Value is : '||V_Boolean);
  5  DECLARE
  6  V_Boolean BOOLEAN;
  7  BEGIN
  8  V_Boolean := FALSE;
  9  END;
 10* END;
SQL> /
The Value is : SAMPLE
```

PL/SQL procedure successfully completed.

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  DECLARE
  2  V_Boolean VARCHAR2(6) := 'SAMPLE';
  3  BEGIN
  4  DBMS_OUTPUT.PUT_LINE('The Value is : '||V_Boolean);
  5  DECLARE
  6  V_Boolean BOOLEAN;
  7  BEGIN
```

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```
8  V_Boolean := FALSE;
9  DBMS_OUTPUT.PUT_LINE('The Value is : '||V_Boolean);
10 END;
11* END;
SQL> /
      DBMS_OUTPUT.PUT_LINE('The Value is : '||V_Boolean);
      *
```

ERROR at line 9:

ORA-06550: line 9, column 23:

PLS-00306: wrong number or types of arguments in call to '||'

ORA-06550: line 9, column 2:

PL/SQL: Statement ignored

SQL> cl scr

```
SQL> DECLARE
2  Empno NUMBER(4);
3  Ename VARCHAR2(15);
4  Sal NUMBER(7, 2);
5  BEGIN
6  SELECT
7  Empno, Ename, Sal
8  INTO
9  Empno, Ename, Sal
10 FROM Emp
11 WHERE Empno = &Gempno;
12 DBMS_OUTPUT.PUT_LINE('The Employee is : '||Empno||', '||Ename||',
' ||Sal);
13 END;
14 /
```

Enter value for gempno: 7839

The Employee is : 7839, KING, 5000

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  Empno NUMBER(4) := &Gempno;
3  Ename VARCHAR2(15);
4  Sal NUMBER(7, 2);
5  BEGIN
6  SELECT
7  Empno, Ename, Sal
8  INTO
9  Empno, Ename, Sal
```

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```
10 FROM Emp
11 WHERE Empno = Empno;
12 DBMS_OUTPUT.PUT_LINE('The Employee is : '||Empno||', '||Ename||',
'||Sal);
13* END;
SQL> /
Enter value for gempno: 7839
DECLARE
*
ERROR at line 1:
ORA-01422: exact fetch returns more than requested number of rows
ORA-06512: at line 6
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1 DECLARE
2 V_Empno NUMBER(4) := &GEmpno;
3 V_Ename VARCHAR2(15);
4 V_Sal NUMBER(7, 2);
5 BEGIN
6 SELECT
7 Empno, Ename, Sal
8 INTO
9 V_Empno, V_Ename, V_Sal
10 FROM Emp
11 WHERE Empno = V_Empno;
12 DBMS_OUTPUT.PUT_LINE('The Employee is : '||V_Empno||',
'||V_Ename||', '||V_Sal);
13* END;
SQL> /
Enter value for gempno: 7839
The Employee is : 7839, KING, 5000
```

PL/SQL procedure successfully completed.

```
SQL> ED
Wrote file afiedt.buf
```

```
1 <<EmpSearch>>
2 DECLARE
3 Empno NUMBER(4) := &GEmpno;
4 Ename VARCHAR2(15);
5 Sal NUMBER(7, 2);
6 BEGIN
7 SELECT
8 Empno, Ename, Sal
```

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```
9 INTO
10 EmpSearch.Empno, EmpSearch.Ename, EmpSearch.Sal
11 FROM Emp
12 WHERE Empno = EmpSearch.Empno;
13 DBMS_OUTPUT.PUT_LINE('The Employee is : '||EmpSearch.Empno||',
'||EmpSearch.Ename||', '||EmpSearch.Sal);
14* END EmpSearch;
SQL> /
Enter value for gempno: 7839
The Employee is : 7839, KING, 5000

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> DECLARE
2 V_Num1 NUMBER(2) := 10;
3 BEGIN
4 DBMS_OUTPUT.PUT_LINE('The V_Num1 : '||V_Num1);
5 DECLARE
6 V_Num2 NUMBER(2) := 20;
7 Result NUMBER(3);
8 BEGIN
9 DBMS_OUTPUT.PUT_LINE('The V_Num2 : '||V_Num2);
10 Result := V_Num2 + V_Num1;
11 END;
12 DBMS_OUTPUT.PUT_LINE('The Sum of '||V_Num1||' And '||V_Num2||' is
'||Result);
13 END;
14 /
DBMS_OUTPUT.PUT_LINE('The Sum of '||V_Num1||' And '||V_Num2||' is
'||Result);
*
```

ERROR at line 12:
ORA-06550: line 12, column 54:
PLS-00201: identifier 'V_NUM2' must be declared
ORA-06550: line 12, column 1:
PL/SQL: Statement ignored

```
SQL> ED
Wrote file afiedt.buf
```

```
1 DECLARE
2 V_Num1 NUMBER(2) := 10;
3 V_Num2Temp NUMBER(2);
4 ResultTemp NUMBER(3);
5 BEGIN
```

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

```
6 DBMS_OUTPUT.PUT_LINE('The V_Num1 : '||V_Num1);
7 DECLARE
8 V_Num2 NUMBER(2) := 20;
9 Result NUMBER(3);
10 BEGIN
11 DBMS_OUTPUT.PUT_LINE('The V_Num2 : '||V_Num2);
12 Result := V_Num2 + V_Num1;
13 V_Num2Temp := V_Num2;
14 ResultTemp := Result;
15 END;
16 DBMS_OUTPUT.PUT_LINE('The Sum of '||V_Num1||' And '||V_Num2Temp||'
is '||ResultTemp);
17* END;
SQL> /
The V_Num1 : 10
The V_Num2 : 20
The Sum of 10 And 20 is 30
```

PL/SQL procedure successfully completed.

```
SQL> VARIABLE BV_Num2 NUMBER
SQL> VARIABLE BResult NUMBER
SQL> ED
Wrote file afiedt.buf
```

```
1 DECLARE
2 V_Num1 NUMBER(2) := 10;
3 BEGIN
4 DBMS_OUTPUT.PUT_LINE('The V_Num1 : '||V_Num1);
5 DECLARE
6 V_Num2 NUMBER(2) := 20;
7 Result NUMBER(3);
8 BEGIN
9 DBMS_OUTPUT.PUT_LINE('The V_Num2 : '||V_Num2);
10 Result := V_Num2 + V_Num1;
11 :BV_Num2 := V_Num2;
12 :BResult := Result;
13 END;
14 DBMS_OUTPUT.PUT_LINE('The Sum of '||V_Num1||' And '||(:BV_Num2)||'
is '||(:BResult));
15* END;
SQL> /
The V_Num1 : 10
The V_Num2 : 20
The Sum of 10 And 20 is 30
```

PL/SQL procedure successfully completed.

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SQL> ED

Wrote file afiedt.buf

```
1  <<OuterBlock>>
2  DECLARE
3  V_Num1 NUMBER(2) := 10;
4  BEGIN
5  DBMS_OUTPUT.PUT_LINE('The V_Num1 : '||V_Num1);
6  DECLARE
7  V_Num2 NUMBER(2) := 20;
8  Result NUMBER(3);
9  BEGIN
10 DBMS_OUTPUT.PUT_LINE('The V_Num2 : '||V_Num2);
11 Result := V_Num2 + V_Num1;
12 :BV_Num2 := V_Num2;
13 :BResult := Result;
14 END;
15 DBMS_OUTPUT.PUT_LINE('The Sum of '||V_Num1||' And '||(:BV_Num2)||'
is '||(:BResult));
16* END OuterBlock;
SQL> /
<<OuterBlock>>
*
ERROR at line 1:
ORA-01006: bind variable does not exist
```

SQL> SPPOOL OFF

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